

**Abstract**

In connection with the determination of the transmit power of a beginning transmission there is also determined, in the method according to the invention, suitable output powers for other transmissions, so that the entity formed by all controlled transmissions is as close to the optimum as possible already at the beginning of a new frame. The method according to the invention takes into consideration the effect of a beginning transmission on other transmissions. The method according to the invention further takes into consideration changes in the conditions during the previous frame by including the control history of the fast power control as initial information of the calculation made during the re-determination of the output powers, for instance as a suitable statistical quantity of the transmission history of each transmission, for instance as an average over a certain period.

Figure 2